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Abstract of the Disclosure

METHOD AND APPARATUS FOR MAKING A TWO PIECE  
UNITARY PISTON

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Past pistons have been susceptible to reduced longevity due to increased forces of combustion thereon during operating cycles of an engine. The present two piece unitary piston  
10 increases the longevity of pistons used with increased forces of combustion. For example, a head member has a crown portion defining a ring band portion having a bottom surface and a support portion. And, a skirt member defines a ring band support surface and a top  
15 surface. The head member and the skirt member have a preestablished material strength being generally the same. The head member and the skirt member are joined by an inertia welding process. The force of combustion acting on the crown portion is resisted by  
20 the ring band support surface being in contacting relationship with the bottom surface. Thus, the skirt member structure supports and resists the bending moment of the combustion forces on the head member.

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